UNIVERSITÄT KLAGENFURT

# Curriculum

# for the Master's degree programme in

# Information Management

## Programme code UL 066 922
(Version 23W.1)

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# Curriculum for the Master's degree programme in

## *Information Management*

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## § 1 General Remarks

(1) The Master's degree programme in *Information Management* is equivalent to 120 European Credit Transfer System credits (ECTS credits). This corresponds to an anticipated study duration of four semesters. The Master's degree programme in *Information Management* is assigned to the group of Social Sciences and Economics pursuant to Section 54 (1) of the Universities Act 2002 (hereinafter UG).

(2) The workload for the individual programme achievement is indicated in ECTS credits. The workload must amount to 1500 hours in one year, for which 60 credits are awarded (Section 54 (2) UG). The workload comprises independent study as well as the semester hours/contact hours, including participation in assessment procedures.

(3) The Master's degree programme is conducted in English.

## § 2 Qualification Profile and Competences

(1) The qualification profile describes the scientific and professional qualifications that students gain by completing the degree programme.

(2) **Initial situation:** Both business and society are increasingly being shaped by the use of digital information and communication technology. An inevitable consequence of this is that companies have an ever-increasing need for employees with professional training orientated towards the state of the art in both research and practice. The Master's degree programme in Information Management at the University of Klagenfurt places particular emphasis on the combination of specialist business knowledge and IT expertise. It thus strives to convey the knowledge required to manage corporate information systems as well as those in inter-company networks from both a business and IT perspective. This provides graduates from the Master's degree programme in Information Management with the best possible preparation for a career in the design, construction, maintenance and development of business information systems.

(3) **Definition:** Information Management is defined as the management of corporate information with modern information and communication systems. Information Management covers all information-related planning, implementation and control activities in a company.

(4) **Intended learning outcomes and competency:** The Master's degree programme in Information Management serves both as an advanced study of theory and as a means of critically reflecting on the application of knowledge in practice. Graduates of the Master's degree programme should be equipped to develop information technology solutions from a business perspective and apply them in practice, beyond the scope of the Bachelor's degree programme. They should also be encouraged to carry out their own research. Using selected examples, these competencies are described below in the form of learning outcomes: By completing the required subjects *Informatics*, *Information Systems*, *Information and IT Management* and the guided elective *Specialisation in Information Management*, graduates should be in a position to assume responsibility for the entire internal information system of a company, including the necessary informatics solutions. The focus is on the areas of design, introduction and maintenance, as well as the ongoing development of information systems in

companies. In regard to the development of commercial information systems, students acquire the necessary skills to manage interfaces between business applications and system technology, from requirements analysis to specification through to system design and, with this in mind, control and support the development process on a project-by-project basis. Ultimately, they should be able to develop smaller business software applications on their own. These competencies are also consolidated by the option to complete an internship within the framework of the study programme, allowing knowledge gained to be directly implemented during the Master's degree programme. The economic knowledge, methods and techniques gained in the guided elective *Specialisation in Business Economics* enable students to carry out management duties and act at the point of intersection between information technology and business applications. Likewise, students are able to analyse and classify typical business-related issues and develop appropriate solutions. As part of the *Complementary Skills* and *Reflection on Information Management* subjects, students can familiarise themselves with the challenges of a humane and gender-equal society in transition and help to master them as they arise in business practice. Graduates are also qualified to deal with information technology challenges in relation to achieving more sustainable development (e.g. waste, environmental and sustainability management). Finally, they can work scientifically and also implement this skill in commercial practice. Furthermore, students are prepared for further university training as part of a Doctoral degree programme.

(5) **Professional fields and fields of activity:** The career opportunities available to graduates revolve around leadership duties in middle and upper management for private sector companies and organisations, socio-economic organisations and public sector companies and authorities as well as professional activities at universities and non-university research institutes. The range of careers for graduates of the Information Management Master's degree programme is – as is generally the case with business-related studies – very wide-ranging. The fields of work range from technical areas such as IT services, software development or data science to fields of business administration such as production and logistics, marketing, controlling, energy management, innovation management and entrepreneurship. The knowledge acquired can be used in various sectors of the economy or in public administration.

(6) **General structure:** The aim of the Master's degree programme in Information Management is to both expand economic knowledge through the selection of a specialisation in business economics and deepen specialist knowledge in the field of informatics, information systems and information and IT management. Students can also gain expertise in gender mainstreaming, diversity and sustainability.

(7) **Practical component**: Constantly changing conditions, declining planning security and increasing digitalization often represent a particular challenge for companies. With this in mind, the Master's degree programme in Information Management focuses specifically on the practical relevance of the concepts and skills it conveys. This is mainly achieved through:

- Lecturers from business and administration.

- Current economic research questions in projects, courses and in the Master's thesis.

- Furthermore, subject-related work placements related to the various applications of information management can be completed at domestic or foreign companies, with public administrations or non-profit organisations or research institutions.

## § 3 Admission Requirements

(1) Admission to a Master's degree programme is contingent upon completion of a relevant Bachelor's degree programme, another relevant degree programme of at least the same higher education level completed at a recognised domestic or foreign post-secondary educational institution or a degree programme as defined in the curriculum of the Master's degree programme (Section 64 (3) UG).

(2) The Bachelor's degree programmes in Management Information Systems (from Version 20W) and Information Management (up to Version 17W) at the University of Klagenfurt are classed as relevant in any case. With regard to the Bachelor's degree programme in Applied Informatics at the University of Klagenfurt, equivalence is restricted in that it must be either curriculum version 12W or version 17W and students must provide evidence of having completed the specialisation in Business Informatics in their Bachelor's degree programme. In this case, students must complete the supplementary subject listed in § 9 (Guided Electives) as part of their Master's degree programme.

(3) In order to compensate for substantial differences in terms of the content of other relevant programmes of at least the same level of higher education completed at a recognised domestic or foreign post-secondary educational institution, supplementary examinations may be prescribed, which must be completed by the end of the second semester of the Master's programme. The Rectorate may determine which of these supplementary examinations are prerequisites for sitting the examinations stipulated in the curriculum of the Master's degree programme (Section 64 (3) UG).

(4) Following qualitative admission conditions are stipulated for the Master's degree programme:

   a) Technical knowledge in computer science/business economics subjects totalling a minimum of 30 ECTS credits. In particular, these should include knowledge of object-orientated programming, databases and software engineering.

   b) Knowledge in business administration subjects totalling a minimum of 30 ECTS credits.

   c) Knowledge of the relevant principles in mathematics and statistics totalling a minimum of 12 ECTS credits.

(5) Persons whose first language is not English are required to demonstrate a knowledge of English at level B2 of the Common European Framework of Reference for Languages (CEFR).

## § 4 Academic Degree

Graduates of this Master's degree programme will be awarded the academic title "Master" accompanied by the words "of Science" (abbreviated to "MSc"). If this title is used, it must be placed after the name.

## § 5 Structure & Organisation of the Degree Programme/Intended Learning Outcomes

Table 1: Structure of the Master's degree programme in *Information Management*

| Subject/ academic achievement | Designation of the subject | | Intended Learning Outcomes | ECTS credits |
|---|---|---|---|---|
| *Required subjects* | 1 | Informatics | Following successful completion of this subject, students will be able to<br>• analyse data engineering issues and develop solutions;<br>• implement advanced concepts and content relating to software engineering, software project management and process improvement in practice;<br>• explain and apply fundamental concepts, techniques and areas of interest in knowledge engineering. | 12 |
| | 2 | Information Systems | Following successful completion of this subject, students will be able to<br>• state the basic structure and areas of use for process management and workflow management systems (WfMS) and model business processes and workflows and implement them in WfMS;<br>• explain and analyse problems in decision-making processes and apply information systems and techniques to decision making;<br>• explain and apply areas of interest, concepts and problem-solving strategies from specific branches of information systems. | 12 |
| | 3 | Information and IT Management | Following successful completion of this subject, students will be able to<br>• apply concepts and techniques from specific branches of systems security;<br>• manage IT projects and introduce IT management methods in the business world;<br>• explain and apply areas of interest, concepts and problem-solving strategies from specific branches of information management and IT management. | 12 |

| | 4 | Complementary skills | Depending on the selected courses, following successful completion, students will be able to<br><br>• familiarise themselves further with the topic of the Master's thesis and evaluate scientific results relating to this topic;<br>• engage constructively with gender aspects and anti-discrimination within companies and scientific work;<br>• explain concepts of sustainability and identify contradictions arising from its implementation in society and develop strategies for addressing these contradictions;<br>• apply research methods. | 4 |
|---|---|---|---|---|
| *Guided electives* | 5 | Specialisation in Information Management | Depending on the selected courses, following successful completion, students will be able to<br><br>• understand and apply fundamental methods of data acquisition, knowledge representation and automatic inference of recommendation technologies as well as machine learning and data science;<br>• explain the benefits and areas of use of information systems; develop and/or adapt information systems and implement methods and techniques for achieving interoperability between information systems;<br>• implement advanced concepts and techniques from specific branches of systems security;<br>• apply methods and techniques of human-machine interaction;<br>• explain and apply methods, techniques and tools for analysing and continually improving the quality of information systems. | 16 |
| | 6 | Specialisation in Business Economics | Depending on the selected specialisation (6.1 – 6.5), following successful completion of this subject, students will be able to<br><br>Selection: 6.1 Quantitative Management<br>• understand and apply quantitative methods and interpret their results as well as derive specific action recommendations;<br>• analyse issues in supply chain management, risk management and value-based management, develop suggested solutions and implement them; | 16 |

| | | | |
|---|---|---|---|
| | | | • address interdisciplinary issues in a scientific manner. |
| | | | **Selection: 6.2 Organisational Control and Strategic Management**<br>• understand and apply operative and strategic analytical tools and interpret their results and derive action recommendations;<br>• state the issues in controlling and systematically analyse them, apply and configure the associated tools and (information) systems;<br>• address interdisciplinary issues in a scientific manner. |
| | | | **Selection: 6.3 Innovation Management and Entrepreneurship**<br>• describe the importance of innovation and entrepreneurship in a business and macroeconomic context;<br>• explain the fundamental theories in their own words;<br>• The use of case studies and the work on one's own project requires entrepreneurial thinking and behaviour, creativity and problem-solving expertise. This also enables students to put theoretical considerations into practice;<br>• address interdisciplinary issues in a scientific manner. |
| | | | **Selection: 6.4 Operations Management and Logistics**<br>• analyse and improve business processes and supply chain processes;<br>• carry out production simulations, material requirements planning, and inventory management and inventory controlling;<br>• address interdisciplinary issues in a scientific manner. |
| | | | **Selection: 6.5 Marketing**<br>• understand the decisions made by consumers and their behaviour and analyse their psychological, social and cultural determinants; |

| | | | | |
|---|---|---|---|---|
| | | | • make strategic and operative marketing decisions with a particular focus on communication and advertising;<br>• address interdisciplinary issues in a scientific manner. | |
| | 7 | Additional competencies | Depending on the student's choice or the stipulations of the Programme Director, in the event that students are required to complete the supplementary subject, students who have successfully completed the subject will be able to<br><br>Selection: 7.1 Internship<br>• plan, implement and finally reflect on a project carried out in the business world.<br><br>Selection: 7.2 Reflection on Information Management<br>• constructively engage with ethical issues, social diversity, gender aspects and anti-discrimination as well as sustainability within companies and/or<br>• understand current challenges and interdisciplinary approaches to sustainable development as a means of solving the major challenges of the 21st century and/or<br>• understand and apply relevant technical and/or business methods and techniques and interpret their results.<br><br>Stipulation: 7.3 Supplementary Subject<br>• understand, structure, critically reflect upon, apply and interpret technical and/or economic content that is fundamental to the Master's programme. | 16 |
| *Open electives* | 8 | Open electives | After successfully completing the subject, students are able to acquire and apply further specific, in-depth individual skills. | 6 |
| *Master's thesis* | 9 | | Students will be able to<br>• research and summarise the latest science and technology in sub-areas of information management;<br>• apply their findings to problem-solving;<br>• validate the solutions and compare them with other solutions; | 21 |

| | | | | |
|---|---|---|---|---|
| | | • describe, present and discuss the problems and their solutions along with the results of the validation process in the Master's thesis. | | |
| *Research seminar* | 10 | | | 2 |
| *Final overall examination* | 11 | Final overall examination | | 3 |
| | | | | *Total: 120* |

### § 6 Study-Related Period Abroad/Mobility

(1) It is highly recommended for all students of the Master's degree programme to complete a study-related period abroad within the framework of their degree programme. Transnational EU, state or university mobility programmes can be used for this purpose. Preferably, existing offers such as established Erasmus+ or joint study programmes in the field of Information Management should be considered. Examinations and other academic achievements completed within the scope of a period of study abroad can be recognised in accordance with the provisions pursuant to Section 78 UG in lieu of examinations and academic achievements prescribed in the curriculum. In terms of mobility in joint study programmes, attention must be paid to the minimum and maximum number of ECTS credits. The $2^{nd}$ or $3^{rd}$ semester is the recommended mobility window.

(2) At the request of regular students who wish to carry out parts of their studies abroad, a preliminary decision shall be issued in advance to determine which of the proposed examinations and other academic achievements can be recognised (Section 78 (5) UG). In any case, interested students are advised to contact the respective competent Programme Director in advance to discuss possible and intended recognition.

### § 7 Types of Courses

(1) **Lectures (Vorlesung/VO)** are courses where knowledge is transferred by means of lectures given by the instructors. Assessment takes place in a one-off (written and/or oral) examination.

(2) In **courses with continuous assessment**, the assessment does not take place in a one-off examination, but on the basis of written and/or oral contributions by participants during the course. Should a written seminar paper or an assignment involving a comparable workload be required in order to conclude a course with continuous assessment, this work may be handed in up to June 30th of the following semester for courses that took place during the winter semester, or up to January 31st of the following year for courses that took place during the summer semester.

(3) Courses with continuous assessment comprise:

   a) **Lecture with course (Vorlesung mit Kurs/VC):** These courses consists of a lecture component and a course component which are closely linked in terms of didactics and which are assessed jointly.

b) **Interactive lecture (Vorlesung interaktiv/VI):** This is a course with ongoing assessment which initially has the character of a lecture, however, based on interactive learning methods (particularly blended learning approaches), content is also prepared by the students themselves and lecturers and students interact via an e-learning platform. The e-learning makes up at least 30 percent of the course workload.

c) **Course (Kurs/KS):** Courses are application-orientated or experience-orientated courses and serve to acquire, expand and consolidate both academic and practical skills and consist of lecturers and students working together to address specific issues or learning content.

d) **Exercise class (Übung/UE):** Exercise classes are courses in which students practise and consolidate theoretical knowledge by working on concrete tasks and solving problems.

e) **Internship (Praktikum/PR):** In addition to scientific education and professional education and training, practical work contributes to the practical and professional objectives of the degree programme. Particular emphasis is placed on working on real tasks and projects. In terms of work experience, a project study is practical work in which small, applied research or development work is carried out in consideration of all necessary work steps, ideally as a team. A written assignment documenting the course of the project and its results is an inherent part of a project study.

f) **Seminar (Seminar/SE):** Seminars are research-, theory- or project-orientated courses aimed at advanced students. They serve to reflect on and discuss specific scientific problems and theses and/or deal with current problems or topics with practical relevance. Students make their own oral and written contributions, whereby written work must exhibit an independent academic character both in terms of form and content.

g) **Research seminar (Privatissimum/PV):** The purpose of the research seminar is to provide ongoing supervision and quality assurance to students as they write their Master's thesis.

### § 8 Required Subjects

(1) Required subjects are the subjects that are integral to the degree programme and for which exams must be taken. Students must complete a total of 40 ECTS credits in required subjects.

(2) The courses assigned to the required subjects are listed in the table below:

Table 2: Required subjects and assigned courses

| Subject | Course designation | Type of course | ECTS credits |
|---|---|---|---|
| *1 Informatics* | 1.1 Data Engineering | VC | 4 |
| | 1.2 Fundamentals of Knowledge Engineering | VC | 4 |
| | 1.3 Advanced Software Engineering | VC | 4 |

| | | | Total: 12 |
|---|---|---|---|
| **2 Information Systems** | 2.1 Process Management | VC | 4 |
| | 2.2 Decision Support Systems | VC | 4 |
| | 2.3 Current Topics in Information Systems | VC/KS/SE | 4 |
| | | | Total: 12 |
| **3 Information and IT Management** | 3.1 IT Management | VC | 4 |
| | 3.2 System Security | VC | 4 |
| | 3.3 Current Topics in Information and IT Management | VC/KS/SE | 4 |
| | | | Total: 12 |
| **4 Complementary Skills** | Selection of one of the following courses: 4.1 Additional Seminar 4.2 Research Methods 4.3 Courses from the elective programme in Feminist Sciences/Gender Studies 4.4 Sustainable Development | VC/KS/SE | 4 |
| | | | Total: 4 |

### § 9    Guided Electives

(1)    Guided electives are those subjects that students choose according to the provisions of the curriculum. A total of 48 ECTS credits must be completed in guided electives.

(2)    The courses offered as guided electives are listed in the tables below (see paragraphs 3, 4 and 5).

(3)    **Specialisation in Information Management**: This guided elective serves to consolidate the students' knowledge, methods and skills in Information Management. Table 3 describes this guided elective.

Table 3: Specialisation in Information Management

| | *Description* | *Type of course* | *ECTS credits* |
|---|---|---|---|
| **5 Specialisation in Information Management** | Specialist courses from the Master's degree programme in Information Management totalling 16 ECTS credits must be completed. The required 16 ECTS credits in specialist courses may also come from the Master's degree programme in Informatics by the University of Klagenfurt. Courses in the following specialist topics are recommended: - Artificial Intelligence - Business Information Systems - Data Science and Engineering - Human-Computer Interaction - Information and System Security - Software Engineering | VO/VC/KS | 16 |

| | In particular, subject-specific course examinations which are completed during a study period abroad may also be recognised as part of these specialist courses (see § 6). | | |
| --- | --- | --- | --- |
| | | | *Total 16* |

(4) **Specialisation in Business Economics (16 ECTS credits)**: Exactly one of the specialisations 6.1 to 6.5 and their subjects totalling 16 ECTS credits must be attended.

Table 4: Specialisation in Business Economics

| 6 Specialisation in Business Economics | | Type of course | ECTS credits |
| --- | --- | --- | --- |
| *6.1 Quantitative Management* | 6.1.1 Quantitative Management 1 | VC/VI | 4 |
| | 6.1.2 Quantitative Management 2 | VC/VI | 4 |
| | 6.1.3 Quantitative Management 3 | VC/VI | 4 |
| | 6.1.4 Subject-specific or Interdisciplinary Seminar in Business Economics | SE | 4 |
| | | | *Total 16* |
| *6.2 Organisational Control and Strategic Management* | 6.2.1 Organisational Control and Strategic Management 1 | VC/VI | 4 |
| | 6.2.2 Organisational Control and Strategic Management 2 | VC/VI | 4 |
| | 6.2.3 Organisational Control and Strategic Management 3 | SE | 4 |
| | 6.2.4 Subject-specific or Interdisciplinary Seminar in Business Economics | SE | 4 |
| | | | *Total 16* |
| *6.3 Innovation Management and Entrepreneurship* | 6.3.1 Innovation Management and Entrepreneurship 1 | KS/VC/VI/VO/SE | 4 |
| | 6.3.2 Innovation Management and Entrepreneurship 2 | KS/VC/VI/VO/SE | 4 |
| | 6.3.3 Innovation Management and Entrepreneurship 3 | KS/VC/VI/VO/SE | 4 |
| | 6.3.4 Subject-specific or Interdisciplinary Seminar in Business Economics | SE | 4 |
| | | | *Total 16* |
| *6.4 Operations Management and Logistics* | 6.4.1 Operations Management and Logistics | KS/VC/VI | 2 |
| | 6.4.2 Exercises in Production Management | KS/VC/VI | 4 |
| | 6.4.3 Exercises in Logistics Management | KS/VC/VI | 4 |
| | 6.4.4 Supply Chain Planning | KS/VC/VI | 2 |
| | 6.4.5 Subject-specific or Interdisciplinary Seminar in Business Economics | SE | 4 |
| | | | *Total 16* |

| 6.5 Marketing | 6.5.1 Advanced Marketing 1 | VC/VI/VO | 4 |
|---|---|---|---|
| | 6.5.2 Advanced Marketing 2 | VC/VI/VO | 4 |
| | 6.5.3 Advanced Marketing 3 | KS/VC | 4 |
| | 6.5.4 Subject-specific or Interdisciplinary Seminar in Business Economics | SE | 4 |
| | | | Total 16 |

(5) **Additional Competencies**: Students must choose precisely one option from the alternatives listed in Table 6 (Internship, Reflection on Information Management or Supplementary Subject). However, it is recommended to choose the Internship from these options. The choice is also restricted depending on the completed Bachelor's degree (see Table 5).

Table 5: Options depending on the completed Bachelor's degree programme

| Option / Degree programme | Internship | Reflection on Information Management | Supplementary Subject |
|---|---|---|---|
| *Bachelor's degree programme in Management Information Systems or Information Management at the University of Klagenfurt* | X | X | |
| *Bachelor's degree programme in Applied Informatics at the University of Klagenfurt (curriculum versions 12W or 17W) with specialisation in business informatics* | | | X |
| *Another relevant Bachelor's degree programme* | The Programme Director rules on the options available for selection when reviewing the application for admission to the Master's degree programme. | | |

**Note:** "X" means that exactly one of the subjects (if there are several options) has to be selected, depending on the completed Bachelor's degree programme.

Table 6: Additional Competencies

| 7 Additional Competencies | Course designation | Type of course | ECTS credits |
|---|---|---|---|
| 7.1 Internship | 7.1.1 Internship | PR | 15 |
| | 7.1.2 Cross-project Review | SE/PR | 1 |
| | | | Total: 16 |

| 7.2 Reflection on Information Management | 7.2.1 Reflection on Information Management 1<br>Students can select courses totalling 8 ECTS credits from the following catalogue:<br>– Scientific Writing<br>– Reflecting on the Limits of Formal Sciences<br>– Courses from the Informatics and/or Business Administration Master's degree programmes at the University of Klagenfurt, which have not yet been taken as part of the required subjects, other guided electives or open electives.<br><br>In particular, subject-specific course examinations which are completed during a study period abroad, may also be recognised as part of the Reflection on Information Management 1 (see § 6). | VO/VC/KS/SE | 8 |
|---|---|---|---|
| | 7.2.2 Reflection on Information Management 2<br>Students can select courses totalling 8 ECTS credits from the following catalogue:<br>– Diversity Management<br>– Business Ethics<br>– Anti-discrimination Law<br>– Courses from the elective programme in Feminist Sciences/Gender Studies, preferably from the Gender and Technology module<br>– Courses from the elective module Sustainable Development<br>– Courses from the Informatics and/or Business Administration Master's degree programmes at the University of Klagenfurt, which have not yet been taken as part of the required subjects, other guided electives or open electives.<br><br>In particular, subject-specific course examinations which are completed during a study period abroad, may also be recognised as part of the Reflection on Information Management 2 (see § 6). | VO/VC/KS/SE | 8 |
| | | | *Total: 16* |
| 7.3 Supplementary Subject | Depending on the student's classification according to Section 3, para. 2 and/or 4, a supplementary subject may need to be completed. For the supplementary subject, courses from the required subjects for the Bachelor's degree programme in | VO/VC/VI/KS/ UE | 16 |

| | Management Information Systems at the University of Klagenfurt totalling 16 ECTS credits must be completed. Note that the supplementary subject courses must always be determined in advance with the Programme Director. | | |
|---|---|---|---|
| | | | *Total: 16* |

## § 10  Open Electives

(1)   Open electives are those subjects that students can freely choose from the range of courses offered by recognised domestic and foreign universities. Courses completed as a prerequisite to study or to gain general or special eligibility for university admission are excluded from this.

(2)   Students are required to complete 6 ECTS credits in open electives.

(3)   In the case of courses completed at other recognised domestic or foreign post-secondary educational institutions, the competent programme director shall rule on whether the recognition as an open elective subject is appropriate for the chosen degree programme from an academic point of view or with regard to professional activities.

## § 11  Courses with a Limited Number of Participants

(1)   The maximum number of participants permitted on each of the following courses is as follows:

a)   The following numbers apply to the course types listed below relating to courses originally assigned to the Master's degree programme in Information Management:

- Lecture with course (VC): 30
- Course (KS): 30
- Internship (PR): 15
- Seminar (SE): 15
- Research seminar (PV): 15

b)   For courses from other curricula, the maximum numbers defined in the respective curricula apply.

(2)   If the number of registrations for these courses exceeds the number of places available, students will be accepted in accordance with the following procedure:

a)   Students whose curriculum stipulates the course in question as a required subject or as a guided elective are given priority admission.

b)   In the event that the number of registrations still exceeds the number of places available, the ranking will be based on the ECTS credits already acquired in the curriculum that defines the course in question as a required subject or guided elective. Courses completed from other programmes of study are not taken into account during this process. If the number of ECTS credits is the same, students will be drawn at random.

## § 12  Courses with Special Registration Conditions

The interdisciplinary seminars (left-hand column of Table 7) within each specialisation are subject to the successful completion of the following courses (right-hand column).

Table 7: Registration Conditions

| Course | Registration condition |
|---|---|
| § 9  Para. 4: „6.1.4 Subject-specific or Interdisciplinary Seminar in Business Economics" | A minimum of 8 ECTS credits from the subject of the Business Economics specialisation ( § 9 Para. 4 "Specialisation Business Economics") to which the seminar is thematically assigned. |
| § 9  Para. 4: "6.2.4 Subject-specific or Interdisciplinary Seminar in Business Economics" | A minimum of 8 ECTS credits from the subject of the Business Economics specialisation ( § 9 Para. 4 "Specialisation Business Economics") to which the seminar is thematically assigned. |
| § 9  Para. 4: "6.3.4 Subject-specific or Interdisciplinary Seminar in Business Economics" | A minimum of 8 ECTS credits from the subject of the Business Economics specialisation ( § 9 Para. 4 "Specialisation Business Economics") to which the seminar is thematically assigned. |
| § 9  Para. 4: "6.4.5 Subject-specific or Interdisciplinary Seminar in Business Economics" | A minimum of 8 ECTS credits from the subject of the Business Economics specialisation ( § 9 Para. 4 "Specialisation Business Economics") to which the seminar is thematically assigned. |
| § 9  Para. 4: "6.5.4 Subject-specific or Interdisciplinary Seminar in Business Economics" | A minimum of 8 ECTS credits from the subject of the Business Economics specialisation ( § 9 Para. 4 "Specialisation Business Economics") to which the seminar is thematically assigned. |

## § 13  Master's Thesis

(1)  The Master's thesis is an academic paper that demonstrates the student's ability to achieve adequate standards of content and methodology when independently addressing scholarly topics. The assignment for the Master's thesis shall be chosen in such a way that it is reasonable to expect a student to complete it within six months. A number of students may jointly address a topic, provided that the performance of individual students can be assessed separately.

(2)  The topic of the Master's thesis must be chosen from one of the following subjects:

- Informatics
- Information Systems
- Information and IT Management
- Specialisation in Information Management
- Selected subject from the Specialisation in Business Economics

(3)  The Master's thesis comprises 21 ECTS credits. In addition to the Master's thesis, students must complete the seminar on the Master's thesis or research seminar totalling at least 2 ECTS credits and taught by their thesis supervisor.

(4)     Pursuant to Part B, Section 18, paras. 4 and 2a of the Statute, the topic and the Master's thesis supervisor must be approved by the Rector of Studies. The application must be made prior to starting work. The student is permitted to change supervisor up until the time the Master's thesis is submitted. Supervision by two persons who are authorised to supervise shall be permissible on a case-by-case basis, where there is good reason to do so (interdisciplinary focus of the topic).

(5)     The completed Master's thesis must be submitted to the Rector of Studies in electronic format. On the request of the supervisor, the author must provide them with a bound copy of the thesis. The supervisor has two months from the date of submission to assess the Master's thesis.

(6)     The (expected) results of the Master's thesis must be presented as part of the Master's thesis seminar.

### § 14  Provisions Regarding the Completion of a Relevant Internship

(1)     During the Master's degree programme, students can complete a relevant internship in a domestic or foreign company, a public administration or non-profit organisation or research institution to test and apply their acquired knowledge and skills in practice. It is not permissible to complete the internship in the last registered semester.

(2)     The internship is a project internship in which the student independently undertakes a self-contained, pre-defined project. The topic of the project must be related to the content of the degree programme. The scope of the internship in the organisation must be at least 300 hours. Furthermore, students are required to prepare an internship report.

(3)     15 ECTS credits are allocated to the practical component including the internship report.

(4)     The practical project/internship placement requires the approval of a supervising university lecturer.

(5)     Working students can also complete the practical component at their place of work, provided it is a self-contained project and the other provisions of the curriculum are met.

(6)     Following the internship, and at the latest by the second subsequent semester, a seminar totalling 1 ECTS credit (1 semester hour) for the cross-project review must be attended, in which the experience gained is discussed in a presentation and a written report and reflected upon scientifically.

(7)     Students are advised to complete the internship during the second or third semester of the Master's degree programme.

### § 15  Use of Languages other than English

As a rule, the courses and oral and written examinations for the Master's degree programme in Information Management will be held and taken in English; the Master's thesis must be written in English.

## § 16 Examination Regulations

(1) To graduate from the Master's degree programme in Information Management, students are required to successfully complete the following components:

   a) course examinations (paras. 2 and 3),
   b) internship (para. 5), where selected,
   c) positive assessment of the Master's thesis (§ 13),
   d) final overall examination before a committee according to para. 6.

(2) The evaluation of the required subjects according to Section 8, the guided electives according to Section 9 paras. 3 and 4, Section 9 paras. 5 clause. 7.2 or Z. 7.3 (where selected or stipulated) and the open electives according to Section 10 is carried out in the form of course examinations.

(3) Lecture examinations take place at the end or after the lecture in the form of a one-off examination. Lectures with course (VC), courses (KS), exercise classes (UE), seminars (SE), and research seminars (PV) are subject to ongoing assessment; attendance is mandatory. In addition, students are expected to actively contribute to discussions and reflective activities, as well as examinations, written assignments and/or oral presentations. Attendance at interactive lectures (VI) is not compulsory, however interaction between the lecturers and students via e-learning platforms is compulsory.

(4) Pursuant to the Statute, the course lecturer must inform the students about the applicable examination and evaluation methods for the course before each semester begins.

(5) The assessment of the internship in accordance with Section 9 para. 5 clause 7.1.1 is carried out by means of a grading scheme. The same grading method is applied to the "Cross-project review of internship" course Section 9 para. 5 clause. 7.1.2).

(6) The final overall examination before a committee takes the form of an oral examination, usually lasting one hour, held before an examination committee consisting of three members. It comprises 3 ECTS credits and is organised as follows:

   a) The subject (1.5 ECTS credits) that the topic of the Master's thesis falls under (in the form of a presentation and defence of the Master's thesis);
   b) Another subject (1.5 ECTS credits) from the Master's degree programme which has to be selected from precisely one of the following subjects and is different to lit. a):
   * Informatics (§ 8)
   * Information Systems (§ 8)
   * Information and IT Management (§ 8)
   * Specialisation in Information Management (§ 9 para. 3)
   * A specialist subject from in Business Economics (§ 9 para. 4 clause. 6.1 – clause. 6.5)

(7) Registration for the comprehensive oral examination before a committee is dependent upon passing the requirements specified in para. 1, point a – c.

(8)   The regulations of the Statute of the University of Klagenfurt, Part B: Study Regulations and the Universities Act as amended from time to time apply to the convening and composition of the examination committee and the processing and repetition of examinations.

(9)   Examinations and other academic achievements that have already been counted in order to complete the degree programme serving as prerequisite for admission cannot be re-used in this Master's degree programme for the purpose of obtaining the degree.

## § 17  Effective Validity

This curriculum enters into force on 1 October 2023 following the announcement in the university bulletin of the University of Klagenfurt and applies to all students who commence their Master's degree programme from the winter semester 2023/2024 onwards.

## § 18  Transitional Provisions

Students who are subject to the curriculum version 19W.1 for the Master's degree programme in Information Management which is in effect prior to the promulgation of this curriculum at the time this curriculum version 23W.1 comes into effect are entitled to complete their studies within 5 semesters according to the provisions of the curriculum version 19W.1. If the degree programme is not completed by 31 March 2026, the students shall be transferred to the curriculum for the Master's degree programme in Information Management in the version valid at that time.

Students following the previously valid curriculum are entitled to voluntarily transfer to the latest valid curriculum at any time.

**APPENDIX Non-binding Recommended Course of Study**

| Subject | 1st semester | 2nd semester | 3rd semester | 4th semester | ECTS credits |
|---|---|---|---|---|---|
| 1.1 Data Engineering | 4 | | | | 4 |
| 1.2 Fundamentals of Knowledge Engineering | 4 | | | | 4 |
| 1.3 Advanced Software Engineering | 4 | | | | 4 |
| 2 Information Systems | 4 | 4 | 4 | | 12 |
| 3 Information and IT Management | 4 | 4 | | 4 | 12 |
| 4 Complementary Skills | | | 4 | | 4 |
| 5 Specialisation in Information Management | 4 | 4 | 8 | | 16 |
| 6.1 – 6.5 Specialisation in Business Economics | 4 | 4 | 8 | | 16 |
| 7.1.1 Praxis (Internship) | | 15 | | | 15 |
| 7.1.2 Cross-project Review | | | 1 | | 1 |
| 8 Open Electives | 2 | | 4 | | 6 |
| 9 Master's Thesis | | | | 21 | 21 |
| 10 Master's Thesis Seminar/Research Seminar | | | | 2 | 2 |
| 11 Final Overall Examination Before a Committee | | | | 3 | 3 |
| ECTS credits | 30 | 31 | 29 | 30 | Total: 120 |